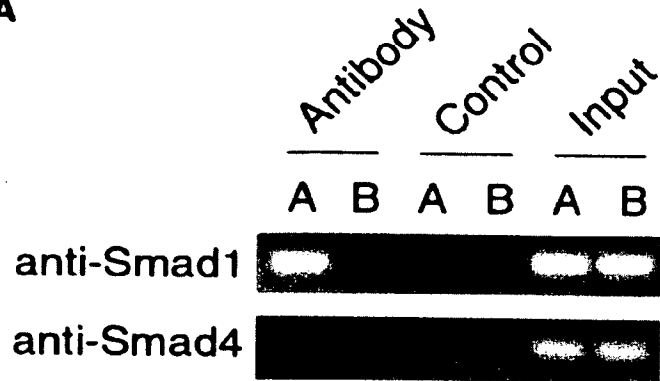
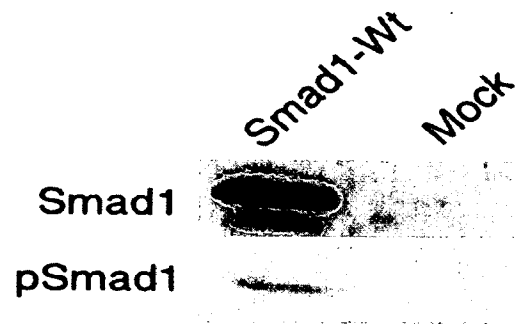


Fig. 1

**A**



**B**



**C**

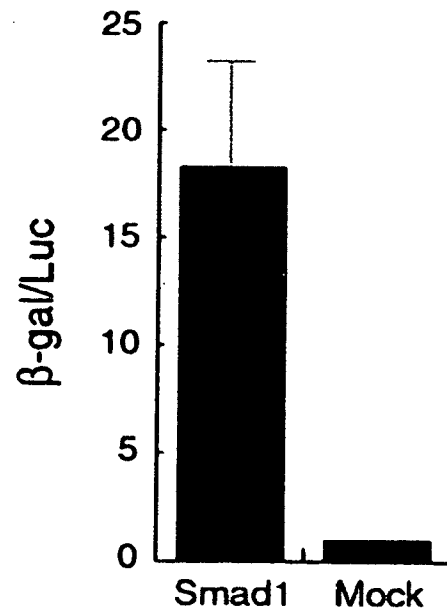


Fig. 2

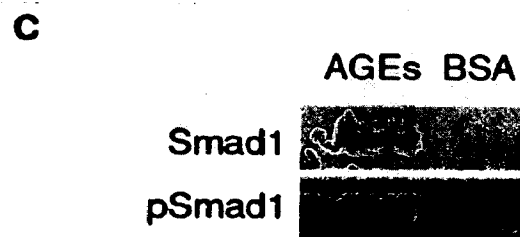
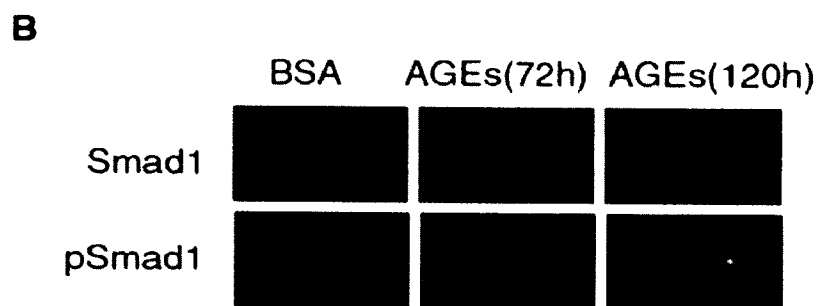
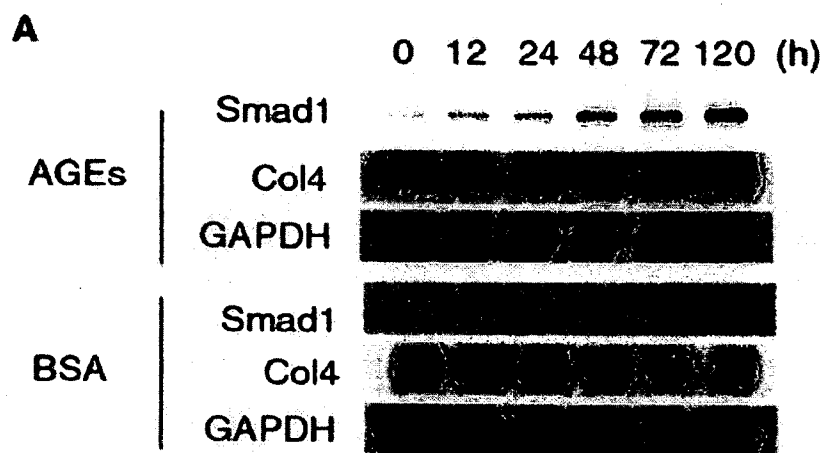
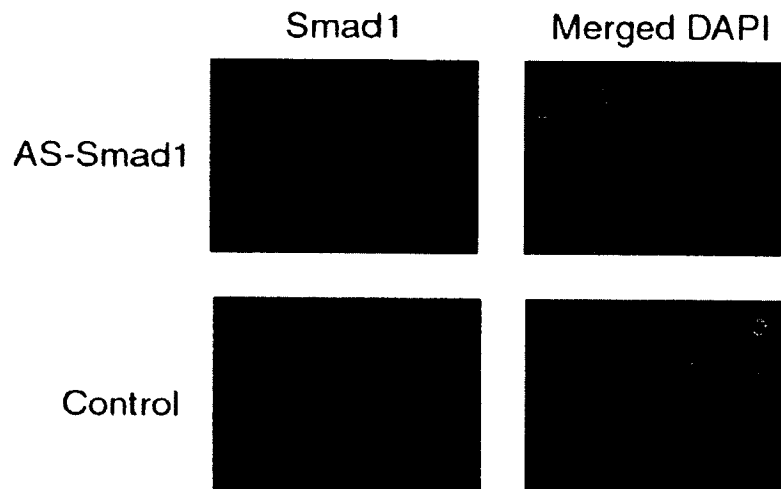


Fig. 3

**A**



**B**



**C**

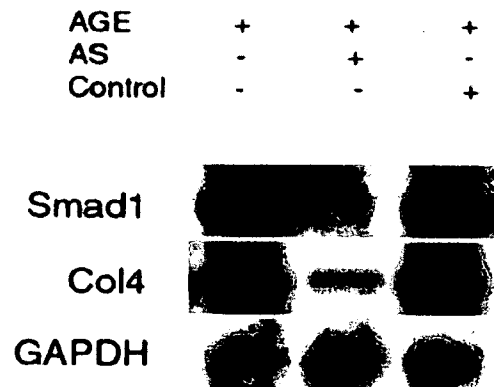


Fig. 4

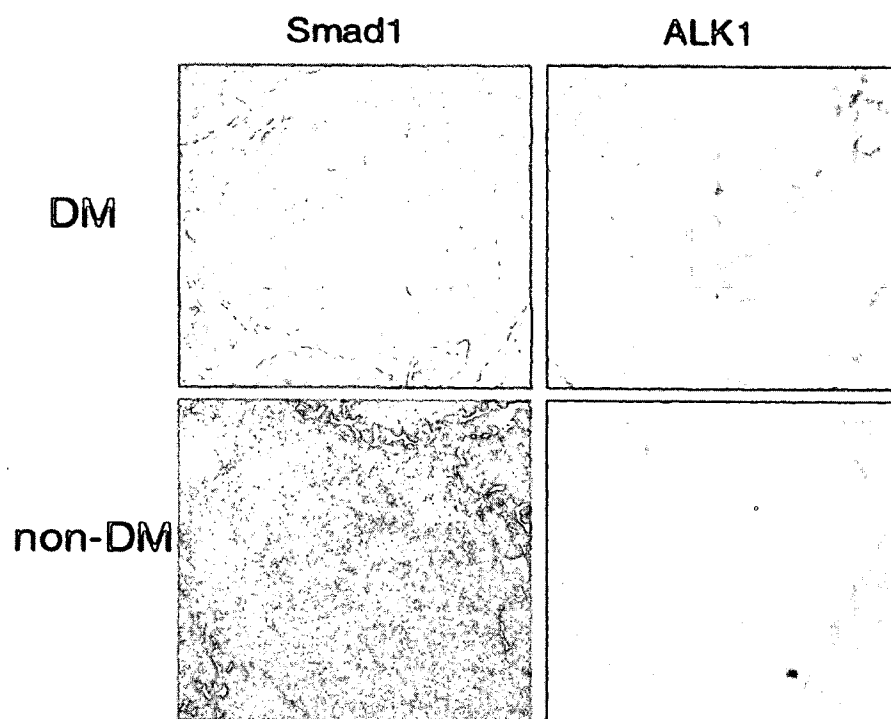


Fig. 5

# *Array analysis (AGEs stimulation on mMC)*

*AGE/BSA Ratio AGE/BSA(color swap)*

|                       |       |      |
|-----------------------|-------|------|
| <i><b>BMP4</b></i>    | 21.25 | 2.32 |
| <i><b>BMP1</b></i>    | 2.06  | 2.07 |
| <i><b>SMADI</b></i>   | 1.27  | 1.22 |
| <i><b>RAGE</b></i>    | 1.15  | 5.6  |
| <i><b>TGFbRII</b></i> | 0.49  | 12.1 |
| <i><b>TGFbRI</b></i>  | 1.15  | 1.1  |
| <i><b>ALK3</b></i>    | 1.18  | 1.3  |
| <i><b>BMPRII</b></i>  | 2.06  | 4.74 |

Fig. 6

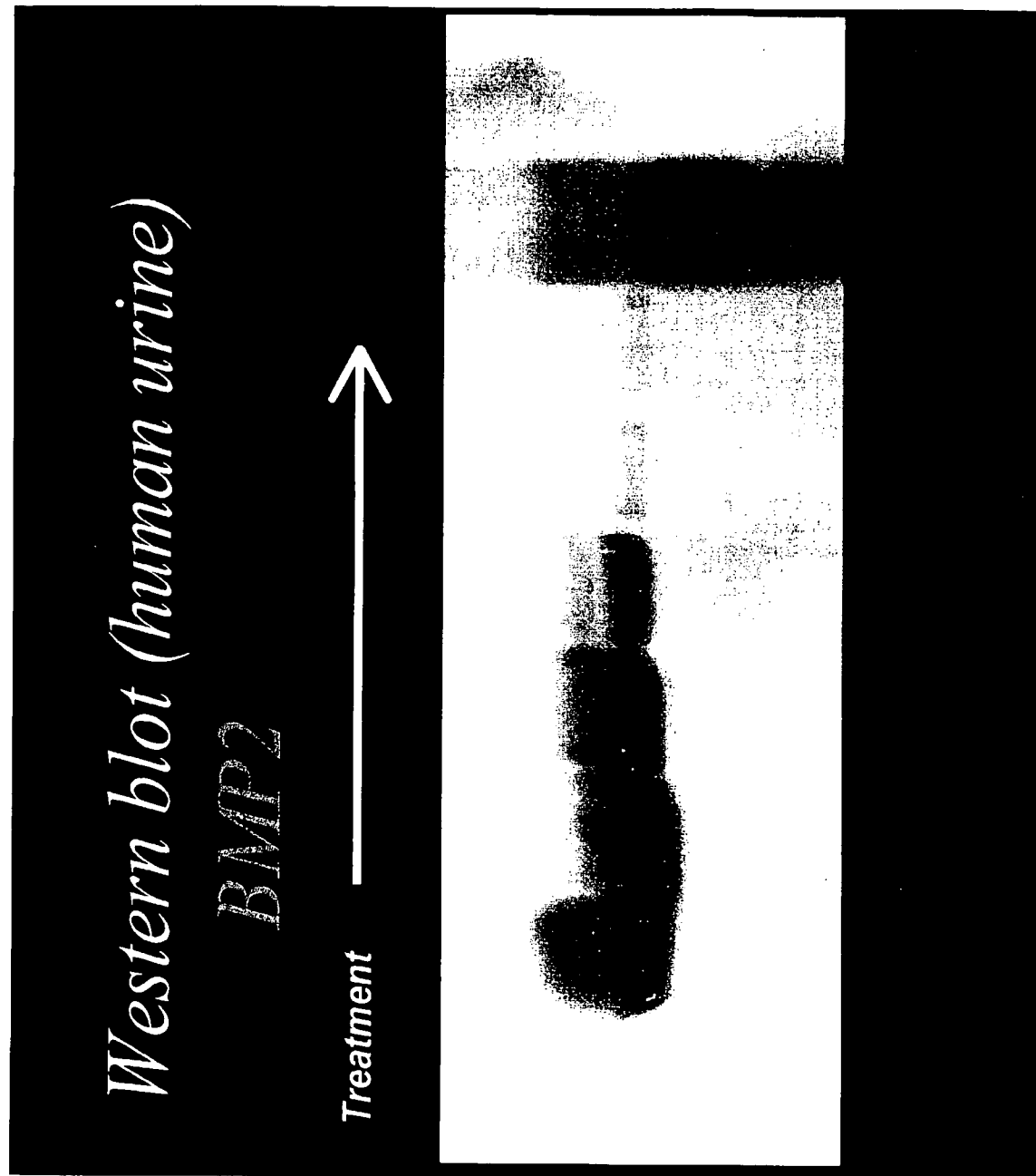


Fig. 7

# Western blot (TGF $\beta$ time course)

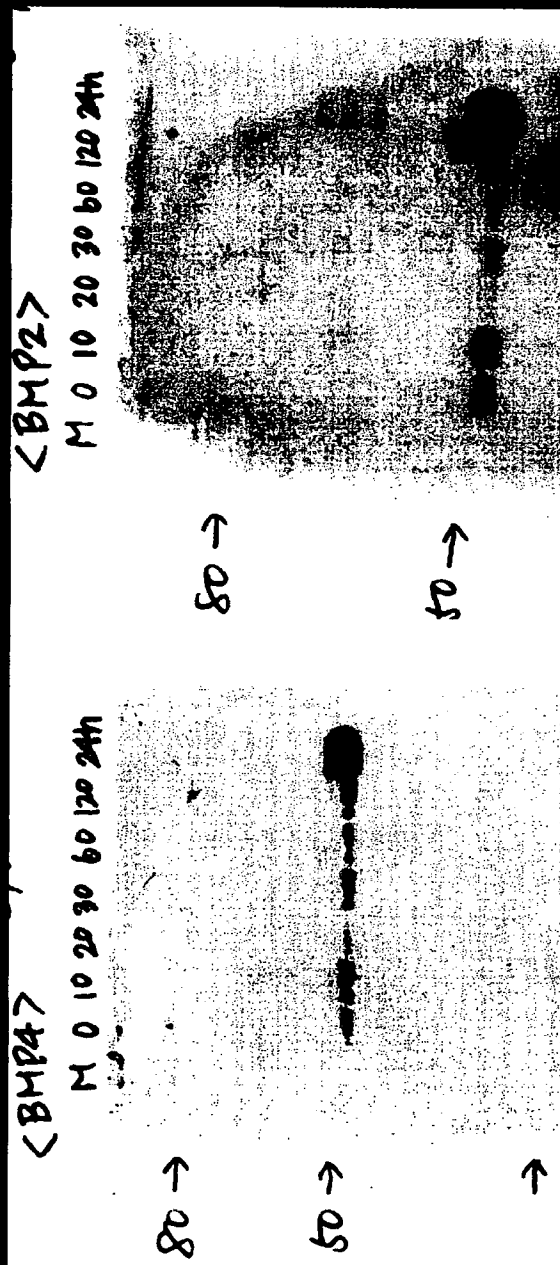


Fig. 8

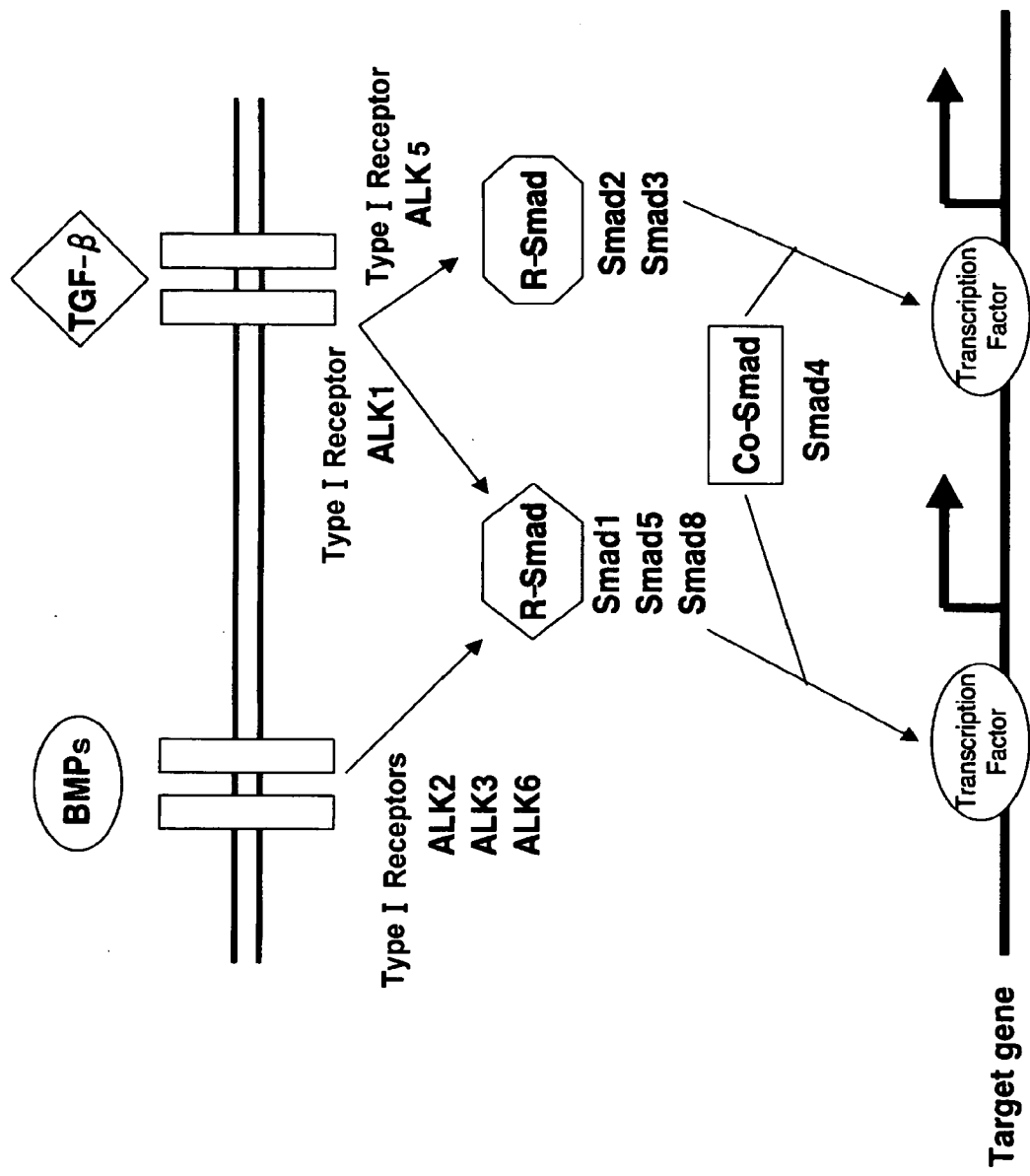




Fig. 9

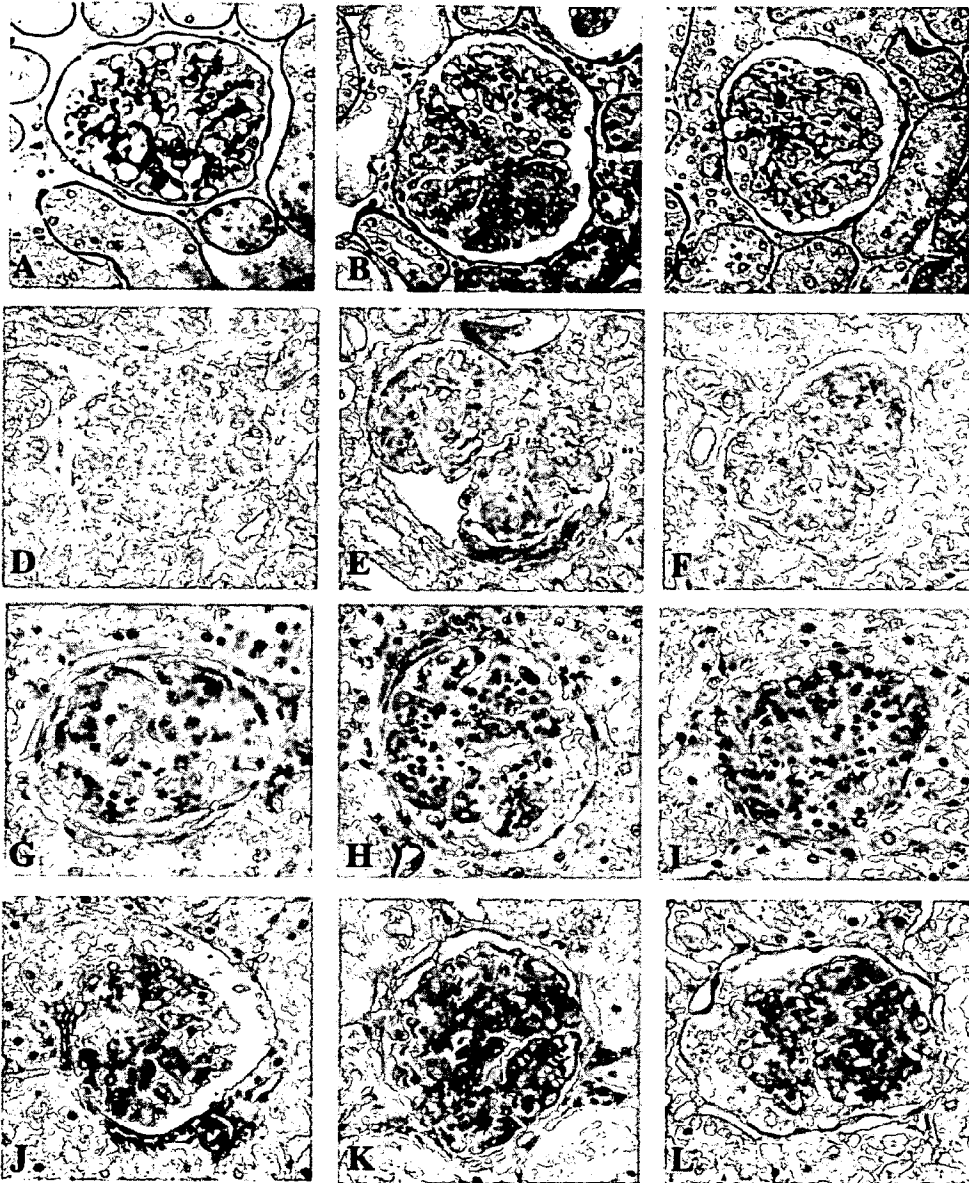


Fig. 10

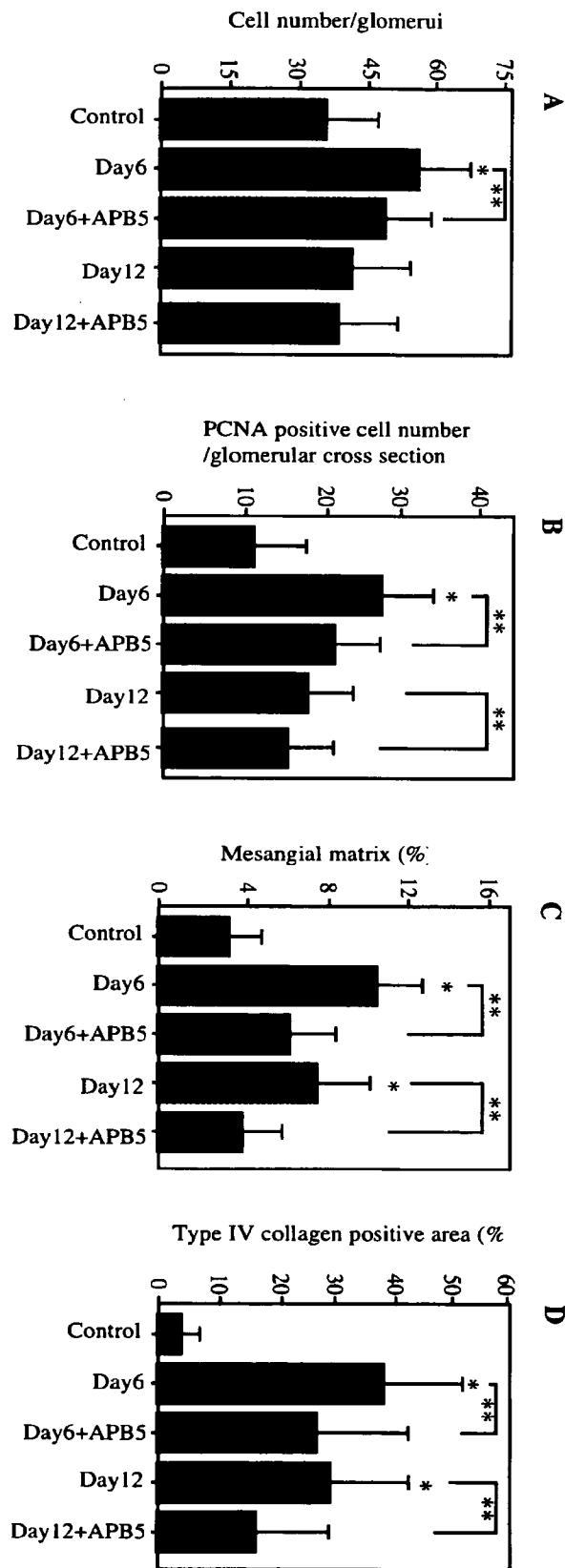


Fig. 11

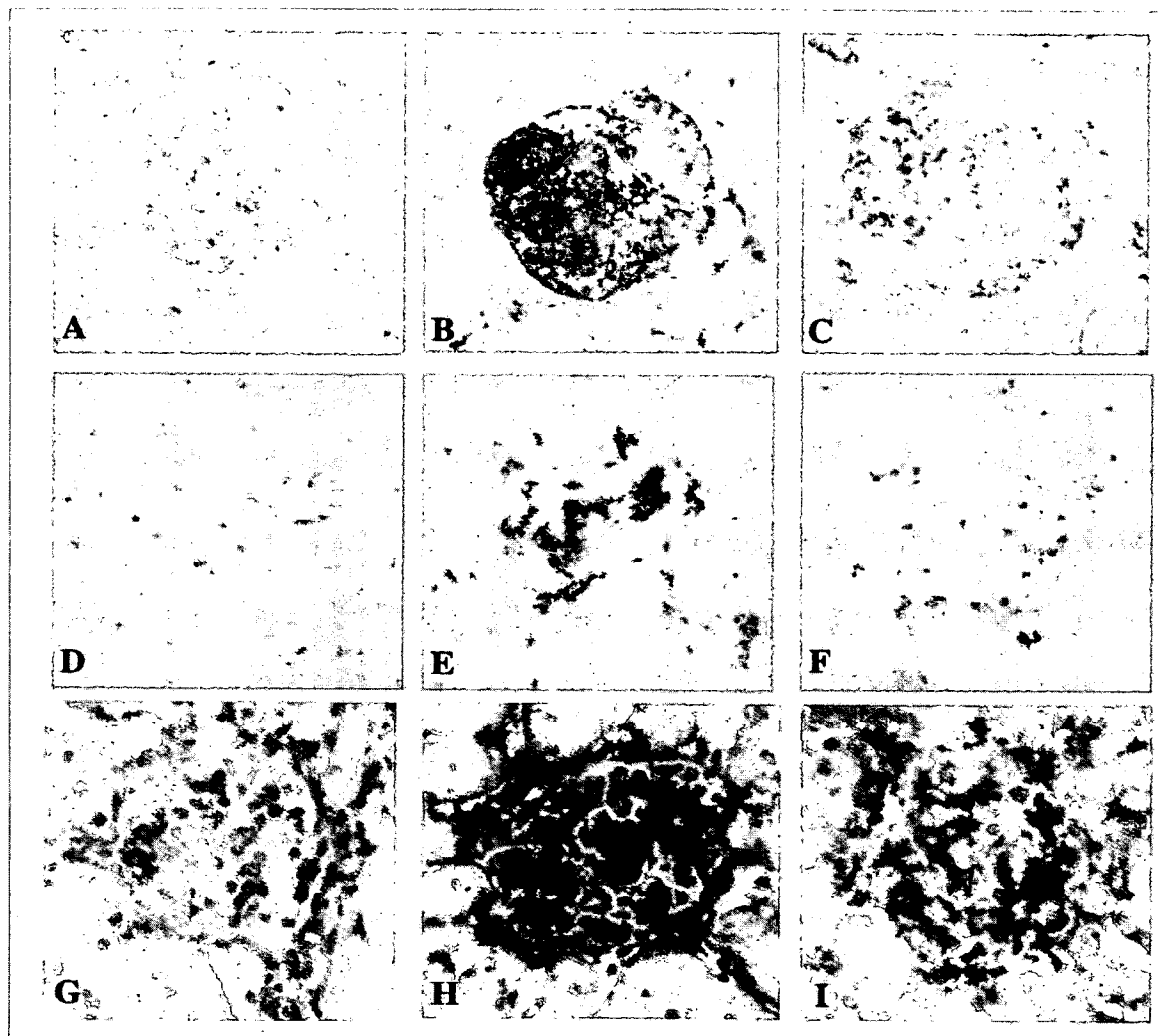


Fig. 12

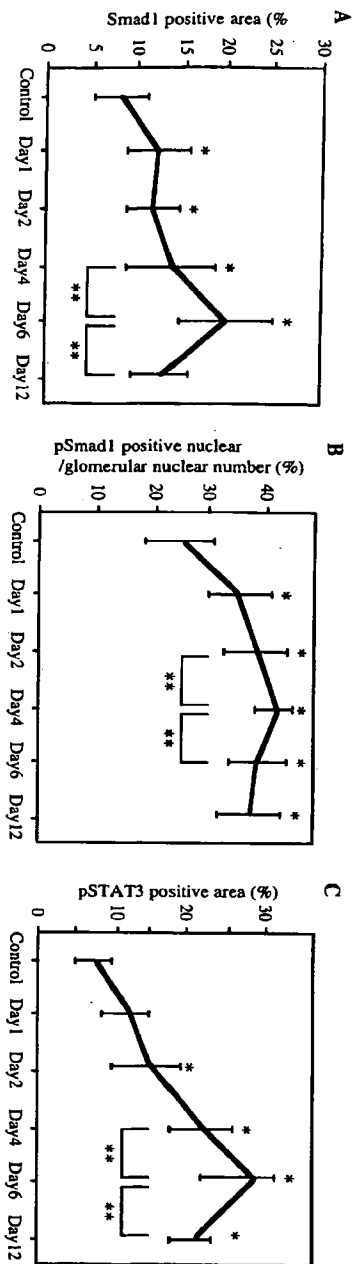


Fig. 13

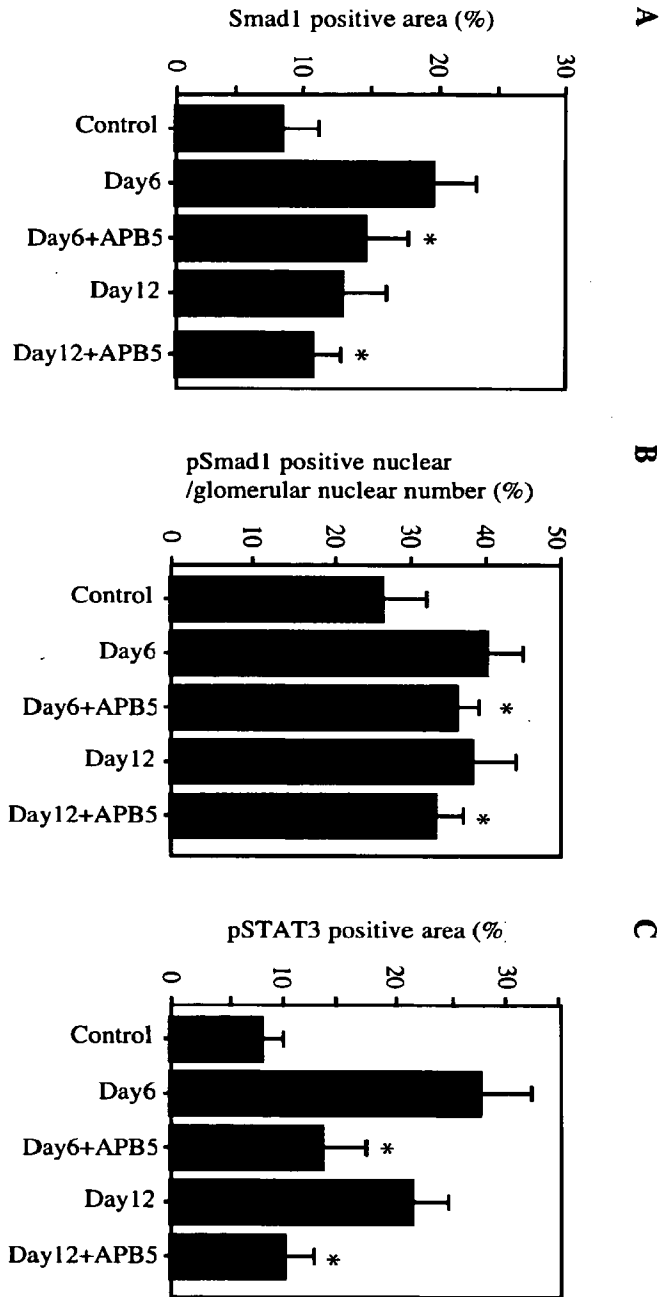


Fig. 14

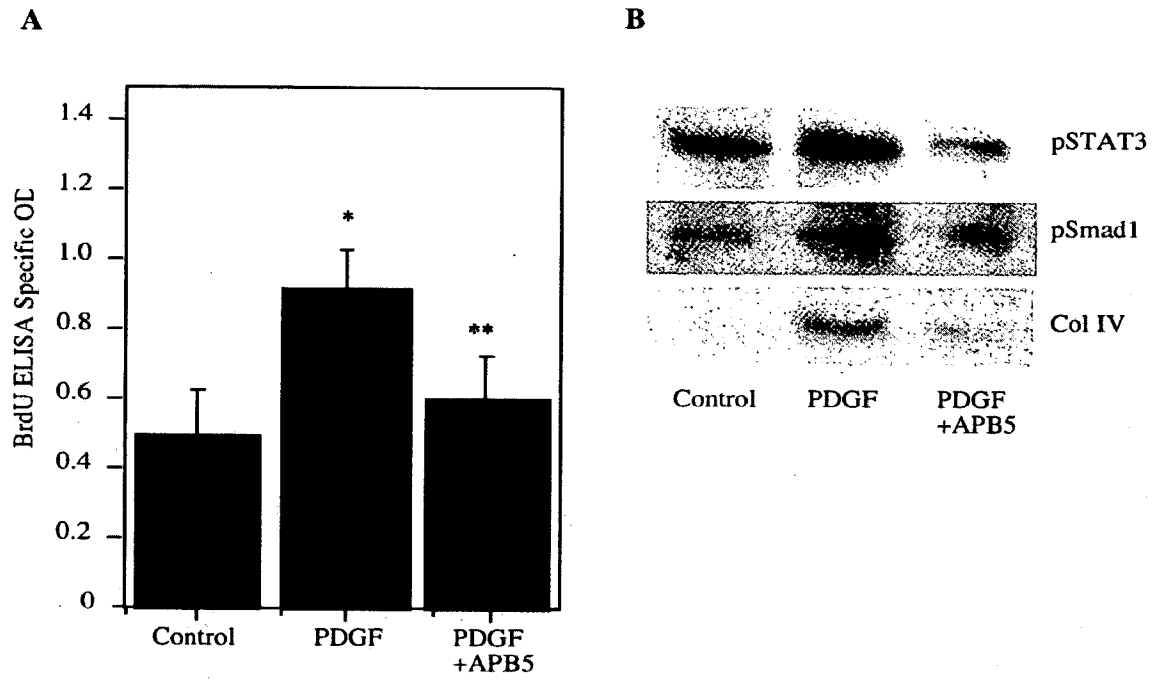


Fig. 15

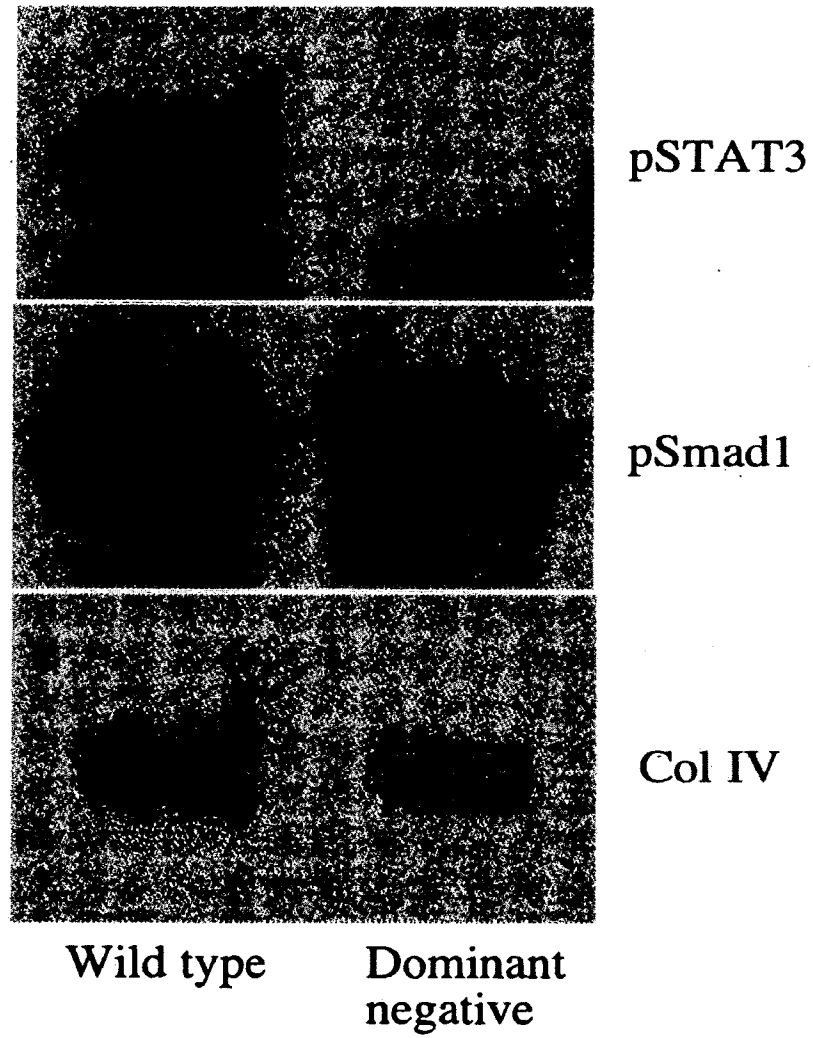


Fig. 16

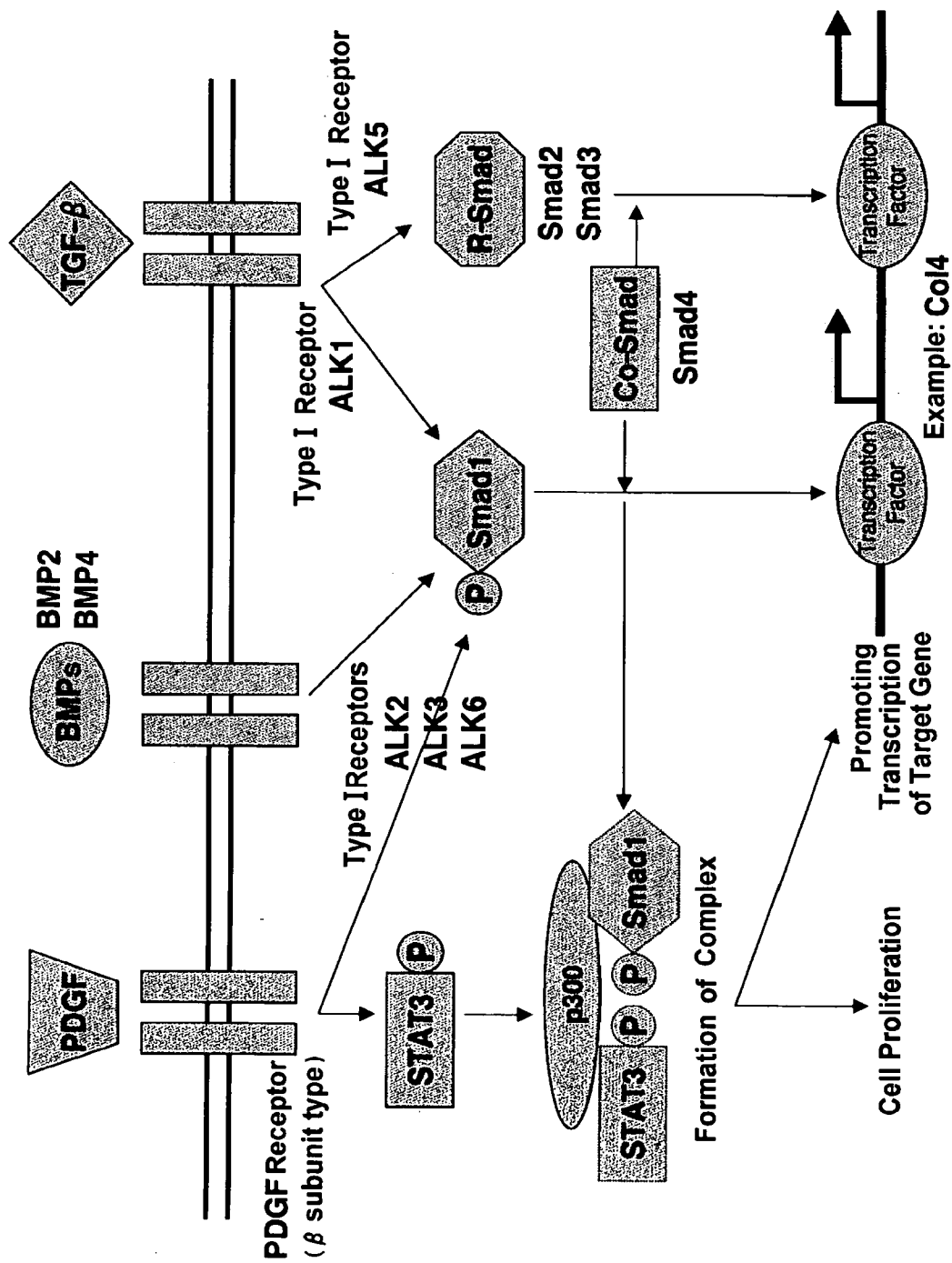
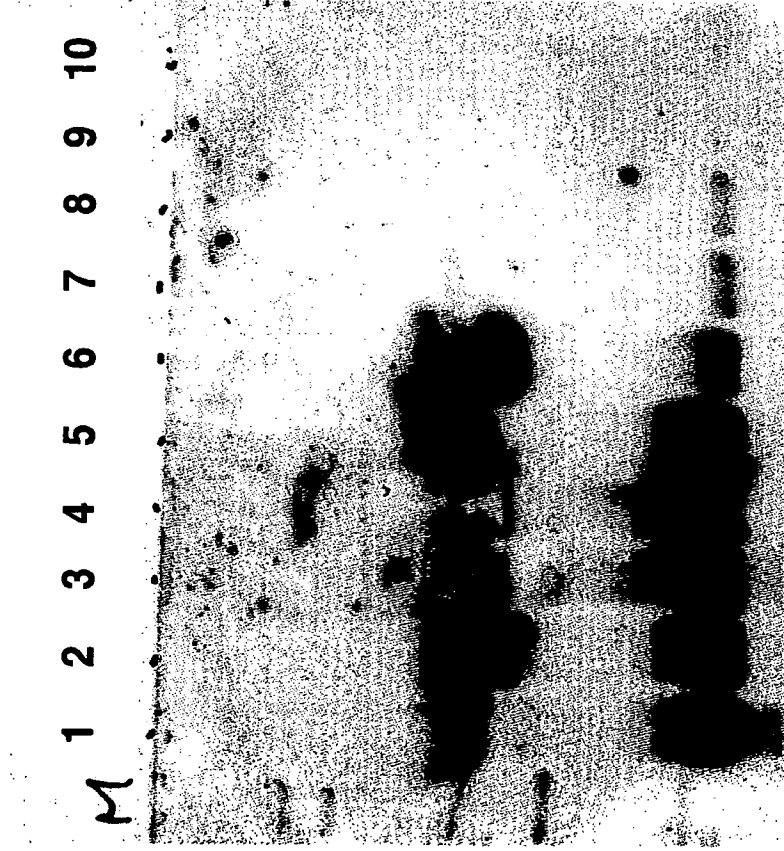




Fig. 17

# Western blot (human urine ALK-1)



Lanes 1-5: diabetic nephropathy

Lane 6: mitochondrial disease in which diabetes is complicated with sclerosing, renal proliferative disease

Lanes 7-8: diabetes + nephritis (without sclerosis)

Lanes 9-1: normal

Fig. 18

# Western blot (human urine ALK-1)

Treatment

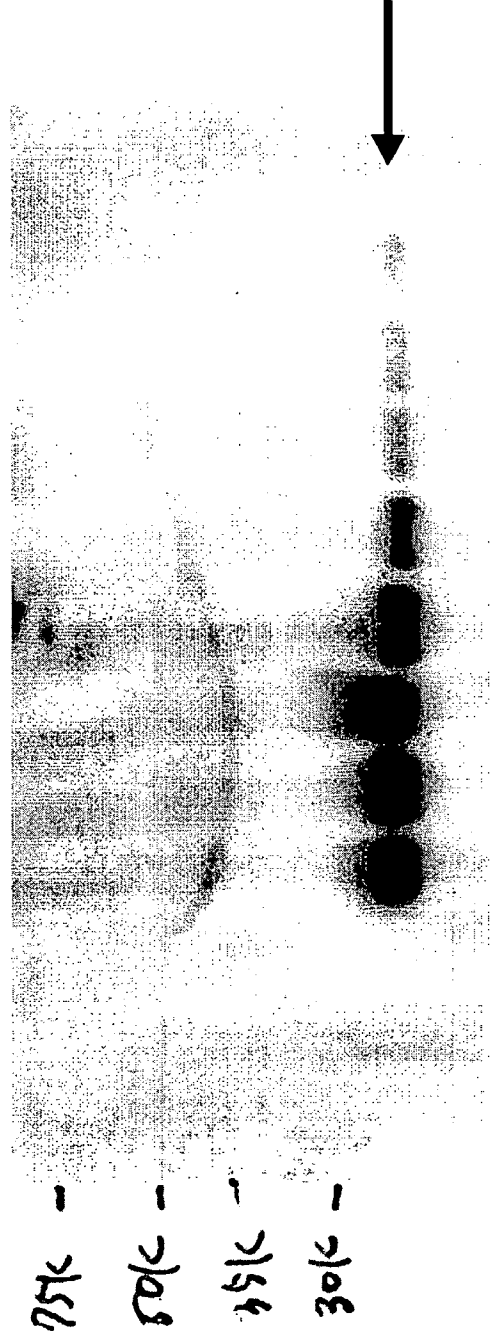
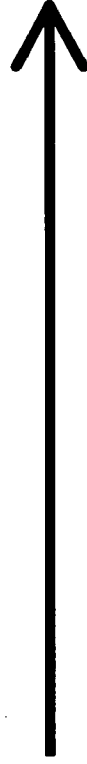
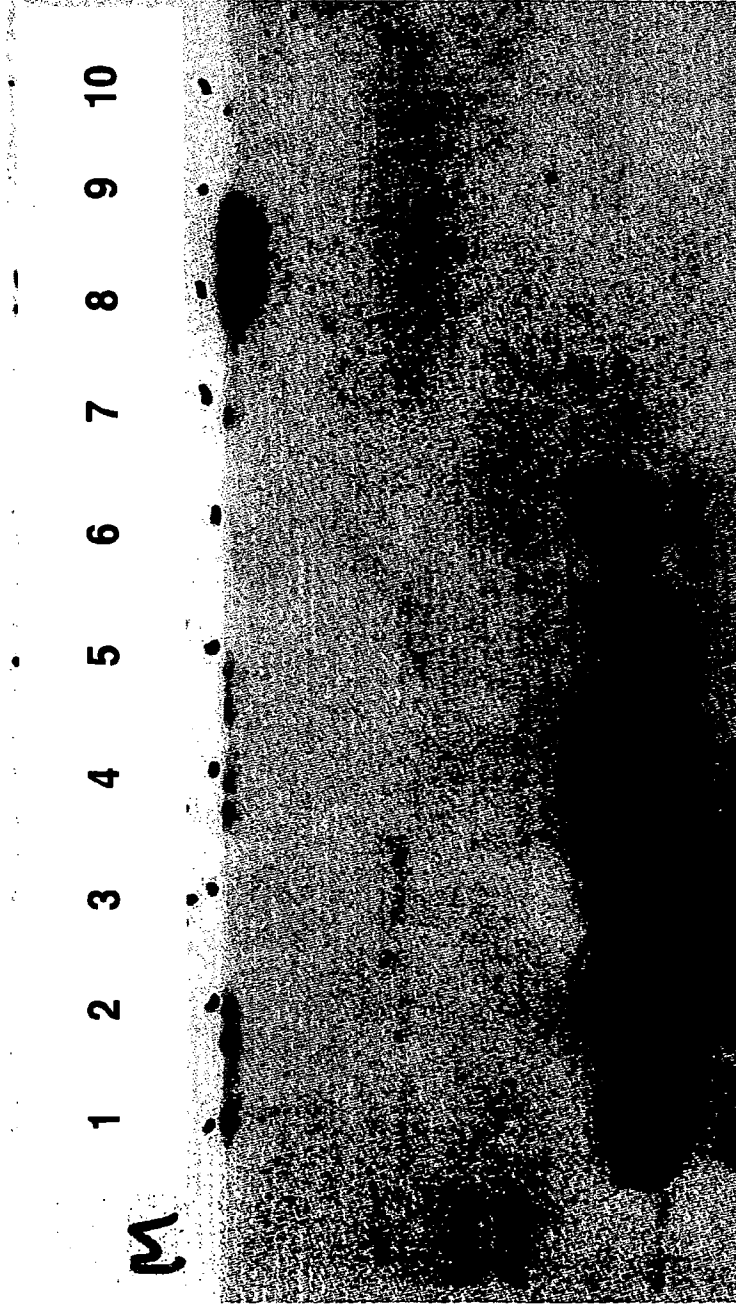


Fig. 19

# Western blot (human urine Smad1)



Lanes 1-5: diabetic nephropathy

Lane 6: mitochondrial disease in which diabetes is complicated with sclerosing, renal proliferative disease

Lanes 7-8: diabetes + nephritis (without sclerosis)

Lanes 9-1: normal